## PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

29-Jun-2010

**Company:** 111407

Room Area ID: Reference #:



 Sales Order #:
 C002697

 CCC Panel #:
 P67981

 Date In:
 03-Jun-2010

 Date Out:
 17-Jun-2010

Days In Service: 14

**CCC Panel # P67981** 

ISA Class GX Severe

Copper Corrosion 4898 Å/30 Days

Silver Corrosion 769 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P67981

The electrolytic reduction analysis on Corrosion Classification Coupon #P67981 shows the presence of extremely high concentrations of contaminants and the possibility of high/variable humidity in the environment tested. The hydrogen sulfide level is expected to be in excess of 50 ppb, sulfur dioxide greater than 300 ppb, and chlorine greater than 10 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. Electronic/electrical equipment is not expected to survive in this environment due to corrosive attack.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

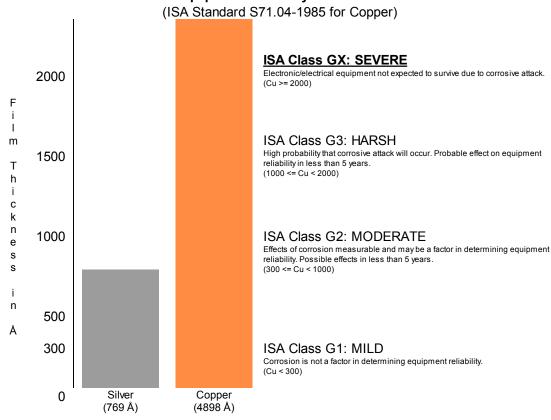
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## PURAFIL CCC # P67981 Analysis Results

Corrosion Film Composition				Gold Coupon -
	30 Days	rojections <u>1 Year</u>	5 Year	Magnified 20x
Copper Films Cu <sub>2</sub> S	759 Å	3115 Å	9109 Å	
Cu <sub>2</sub> O	399 Å	1639 Å	4792 Å	
Unknowns	3740 Å	15354 Å	44895 Å	
Totals	4898 Å	20108 Å	58796 Å	
Silver Films				
AgCI	140 Å	1703 Å	8517 Å	
Ag <sub>2</sub> S	571 Å	6955 Å	34773 Å	
Unknowns	58 Å	700 Å	3501 Å	
Totals	769 Å	9358 Å	46791 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

## **Equipment Reliability Correlation**



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